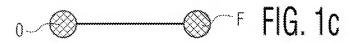
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# ⊗ FIG. 1a





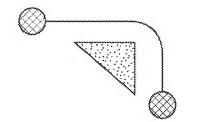


FIG. 1d



FIG. 1e

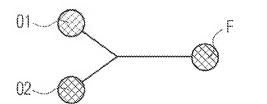
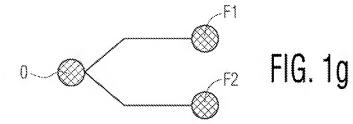
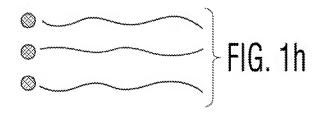


FIG. 1f





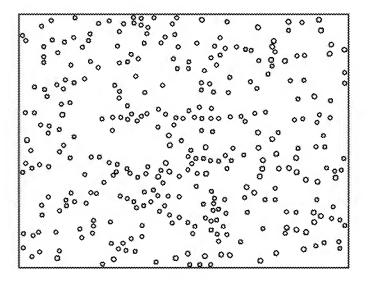


FIG. 2A

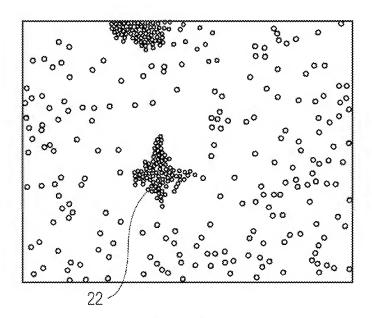


FIG. 2B

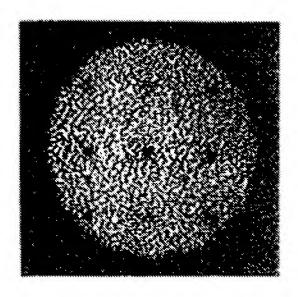


FIG. 2C

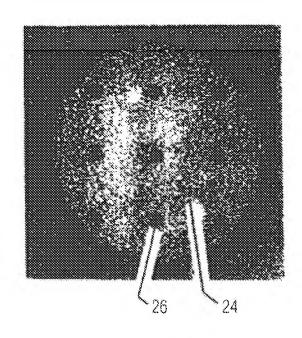
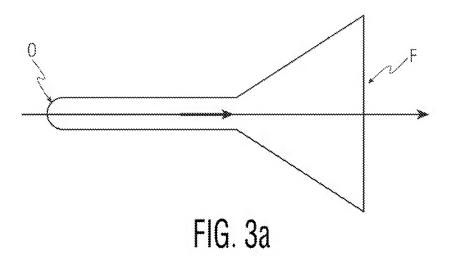
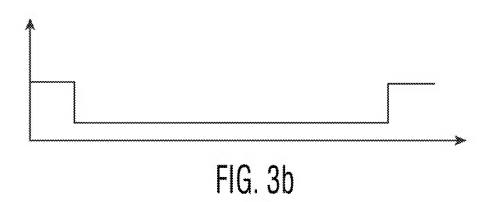


FIG. 2D





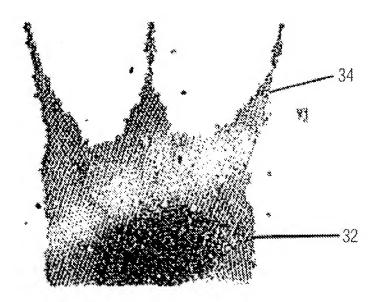


FIG. 3c

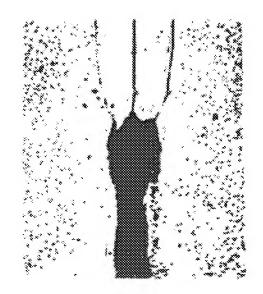


FIG. 3d

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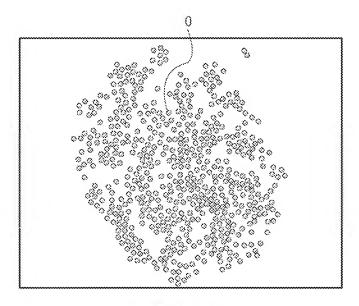


FIG. 4A

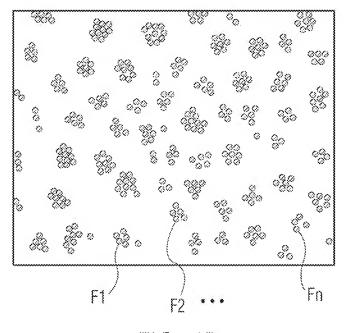


FIG. 4B

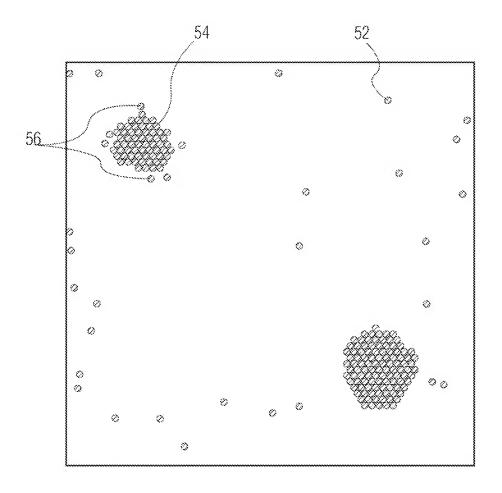


FIG. 5

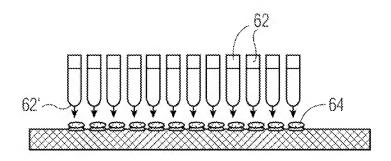


FIG. 6a

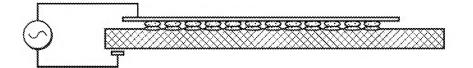


FIG. 6b

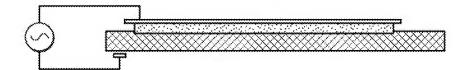


FIG. 6c

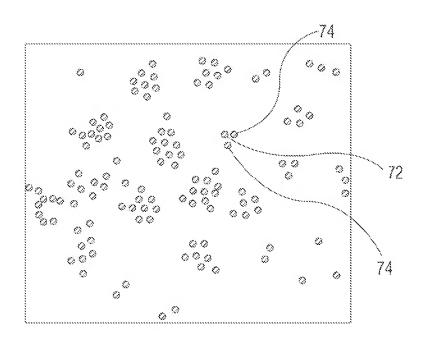
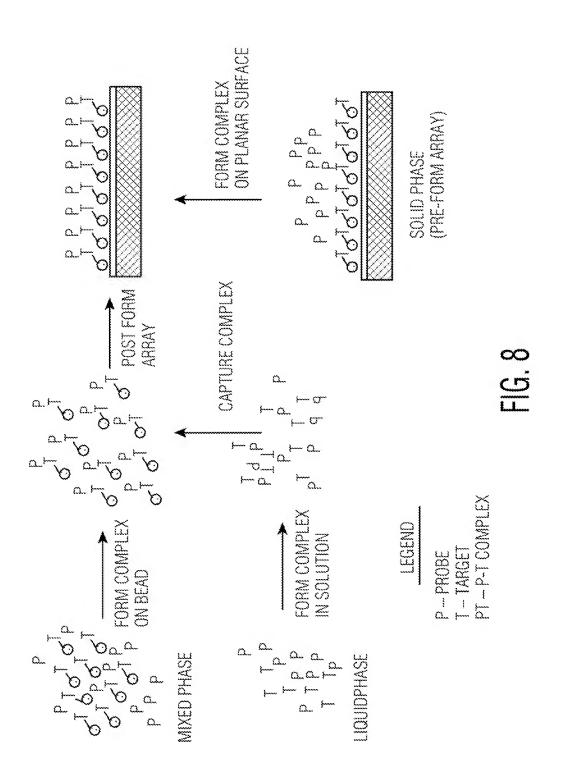
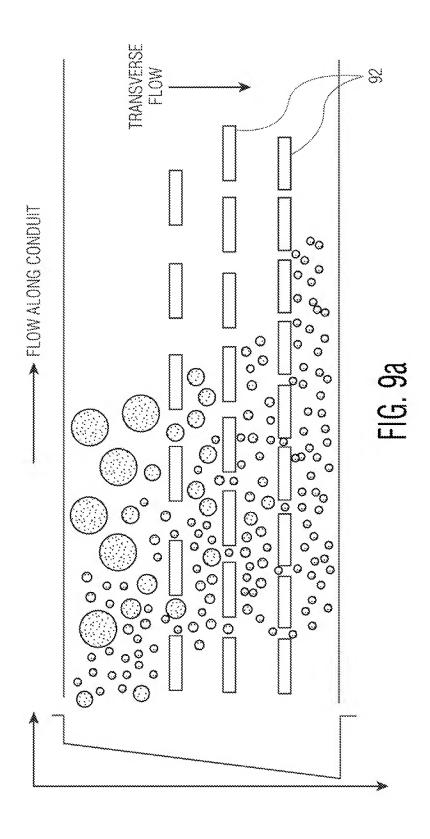


FIG. 7



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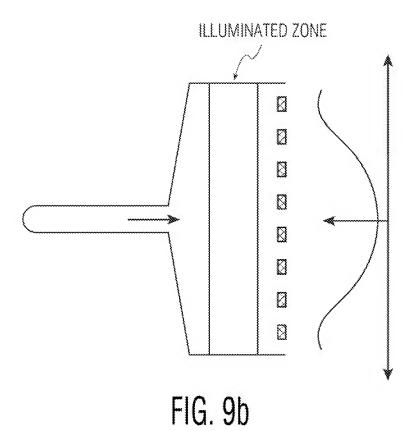
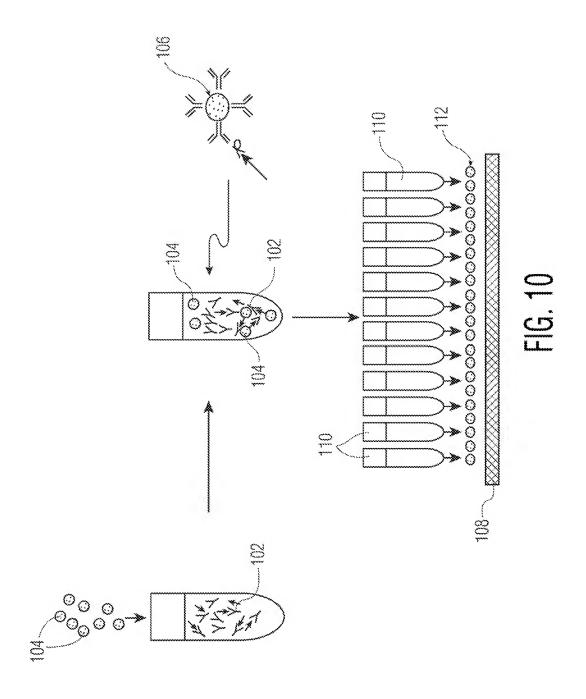
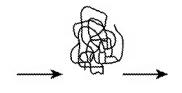


FIG. 9c

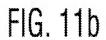


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LOCAL FLUID VELOCITY

FIG. 11a



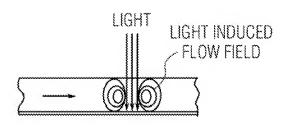


FIG. 11c

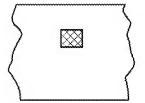


FIG. 11d

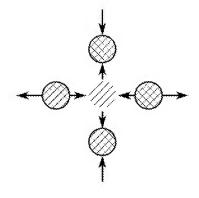


FIG. 11e

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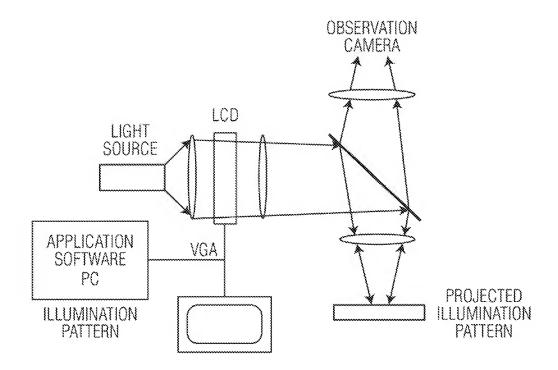


FIG. 12 PRIOR ART

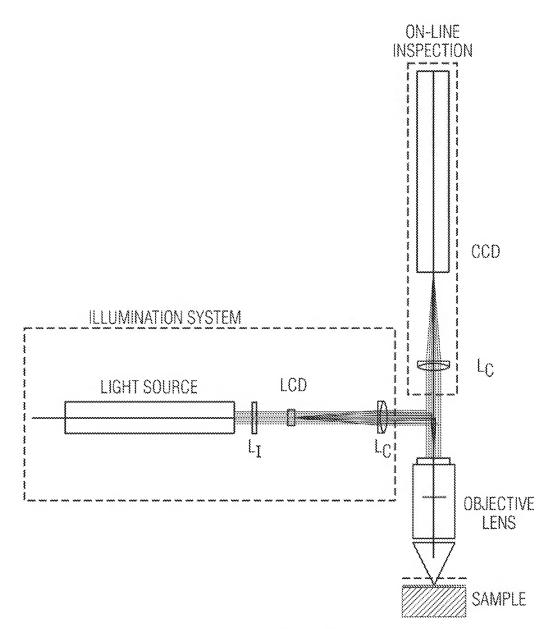
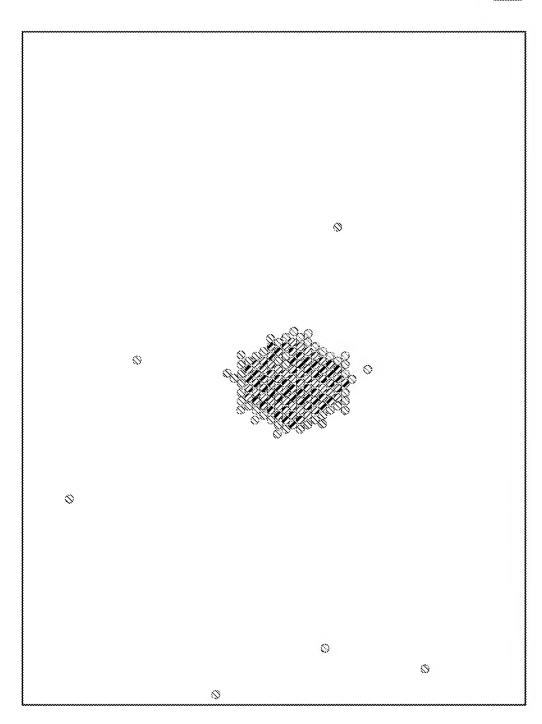


FIG. 13

FIG. 14a



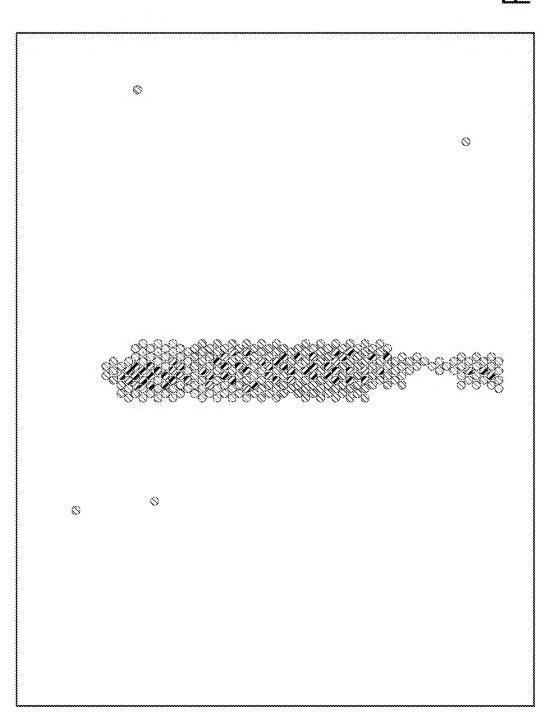
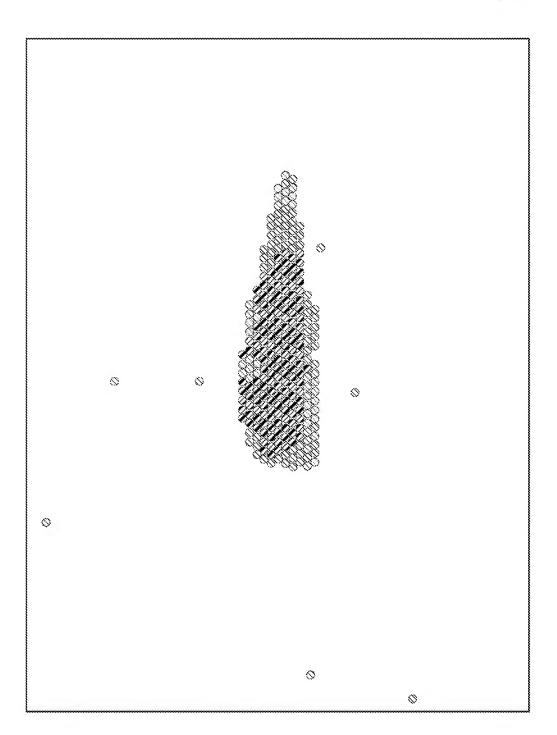
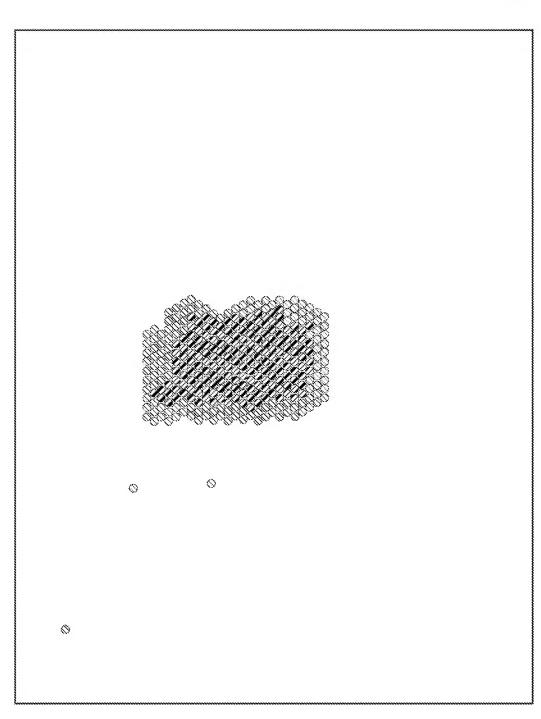
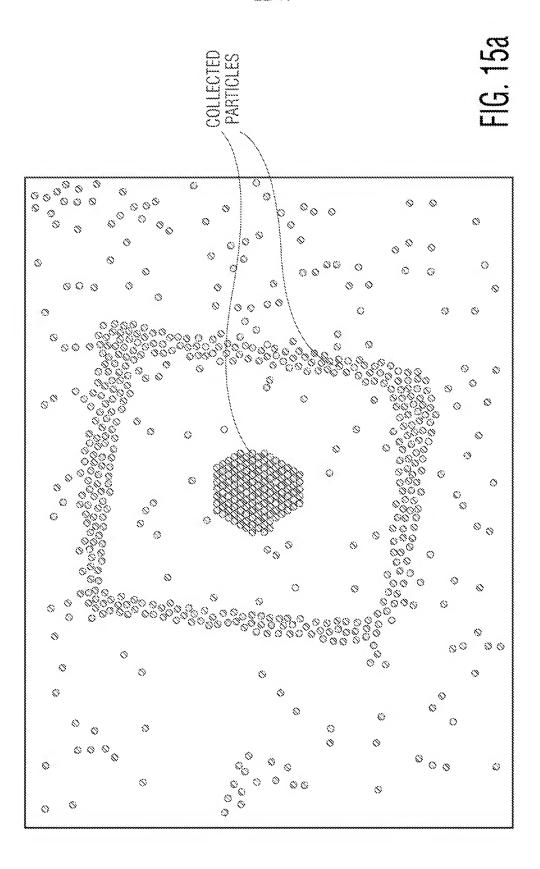


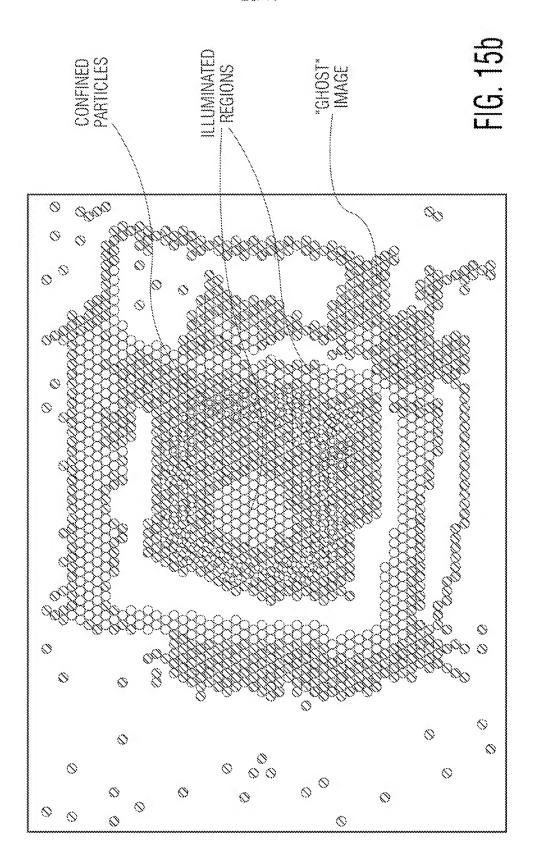
FIG. 14c

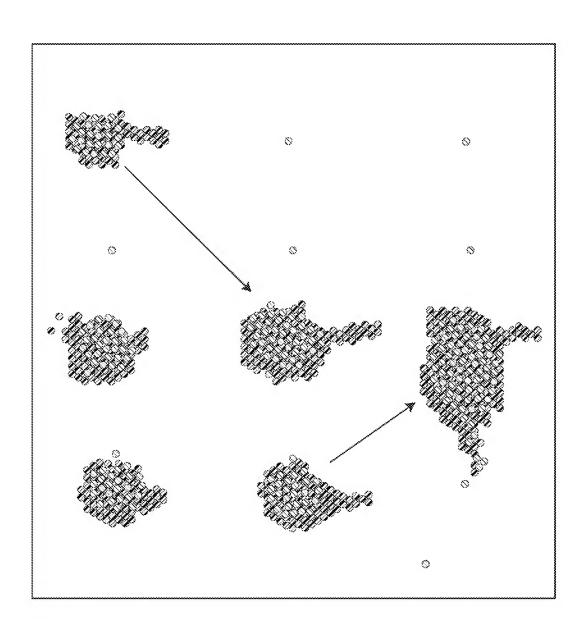


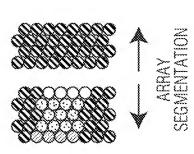


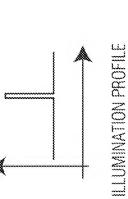


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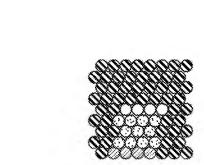




DYNAMIC BEAD ARRAY WITH LABELED SUBARRAY







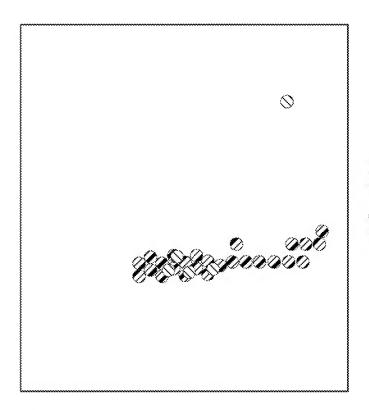


FIG. 188

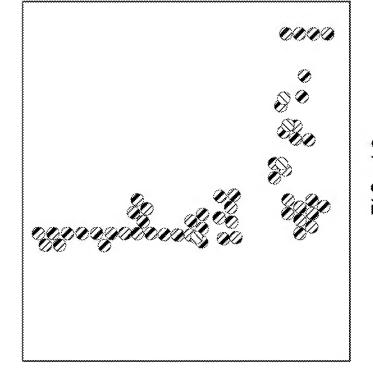
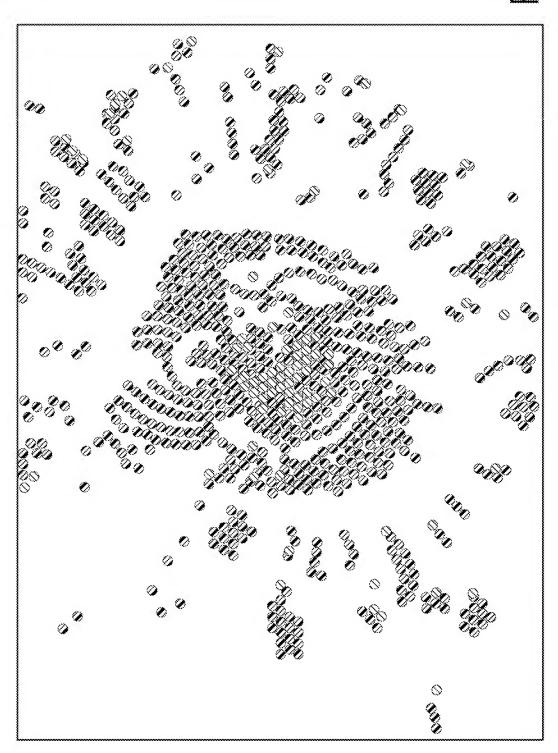
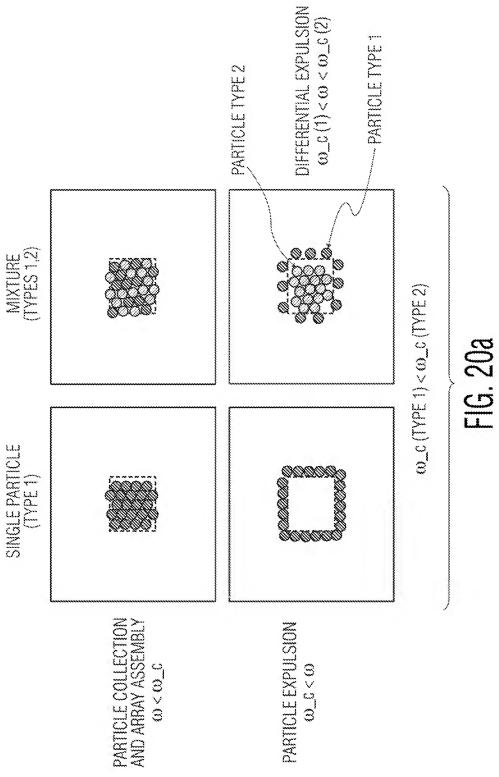
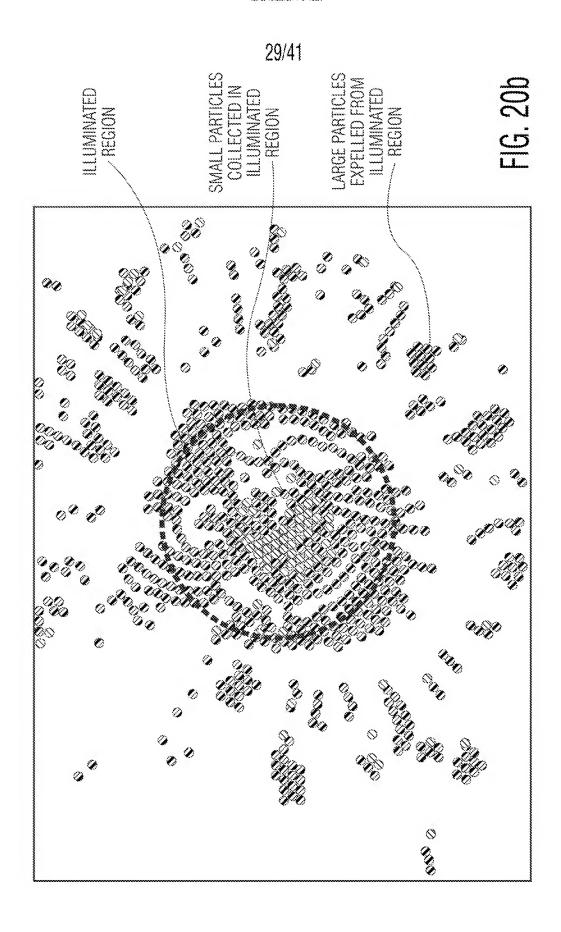


FIG. 18a







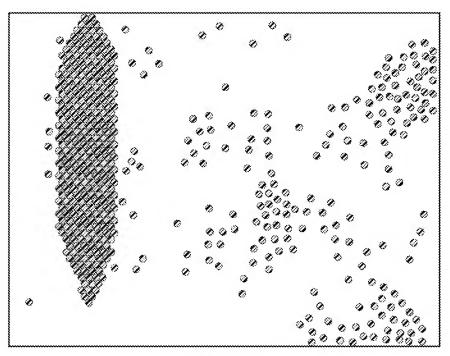


FIG. 21a

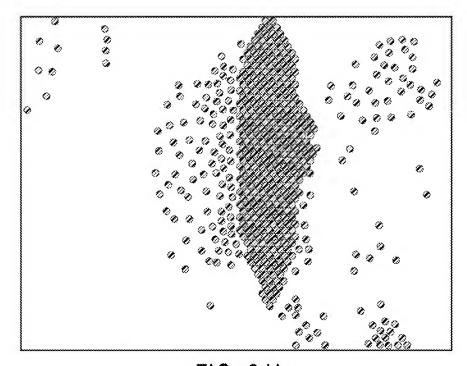


FIG. 21b

#### **ENCODING METHODOLOGIES**

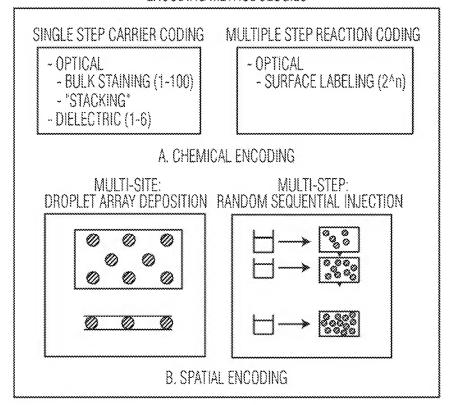


FIG. 22a

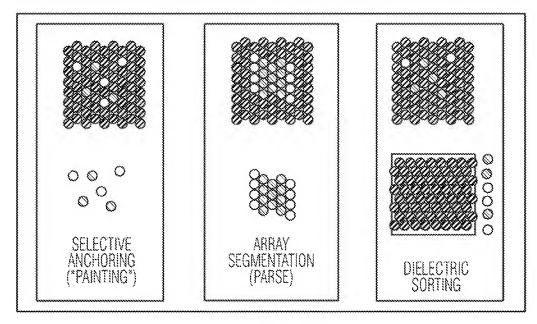


FIG. 22b

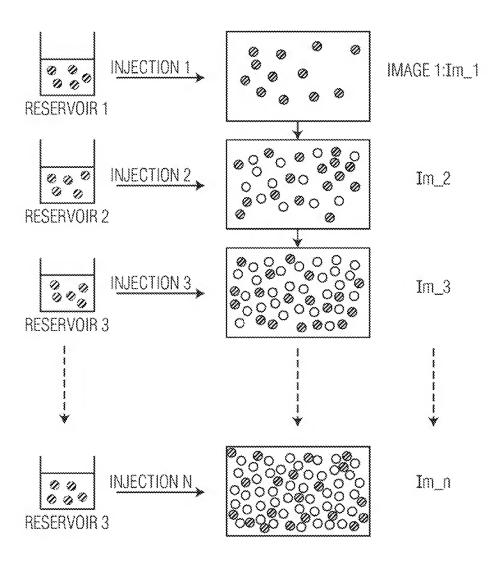


FIG. 23

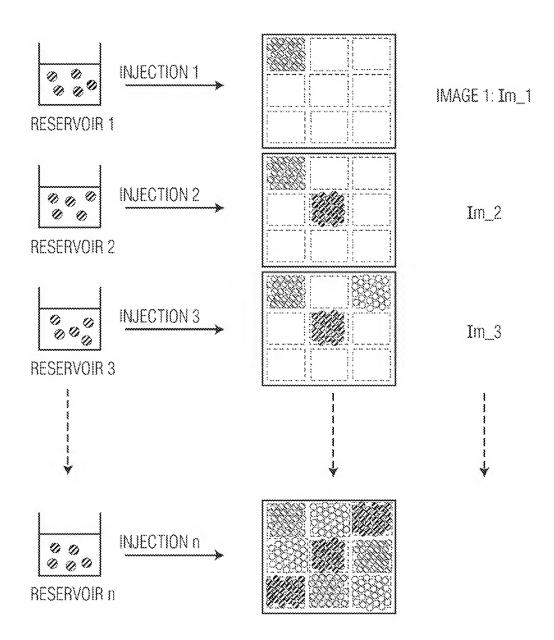


FIG. 24

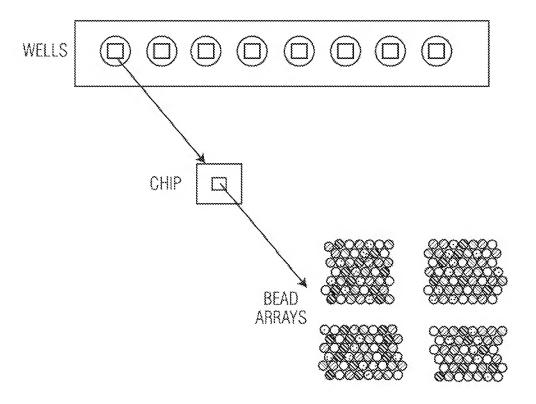


FIG. 25a

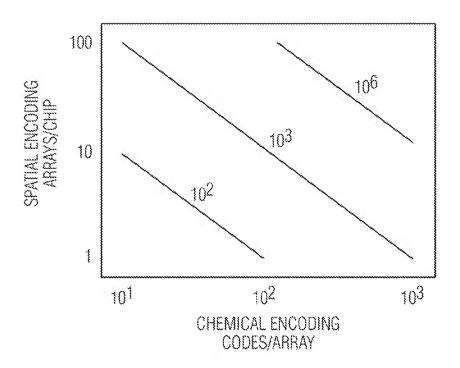


FIG. 25b

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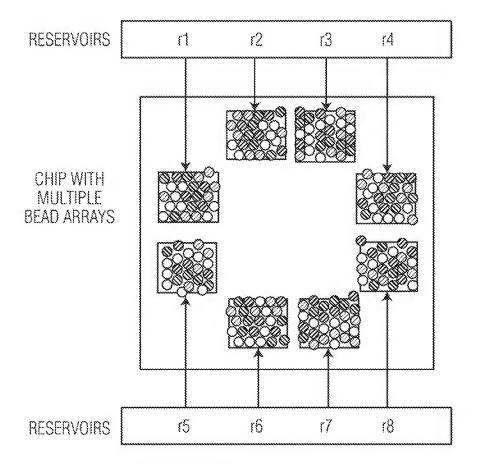


FIG. 25c

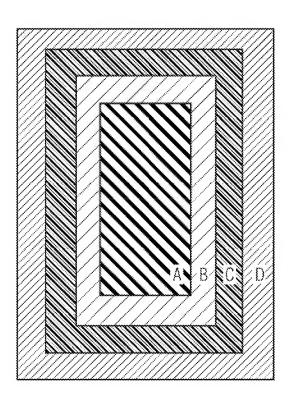


FIG. 26a

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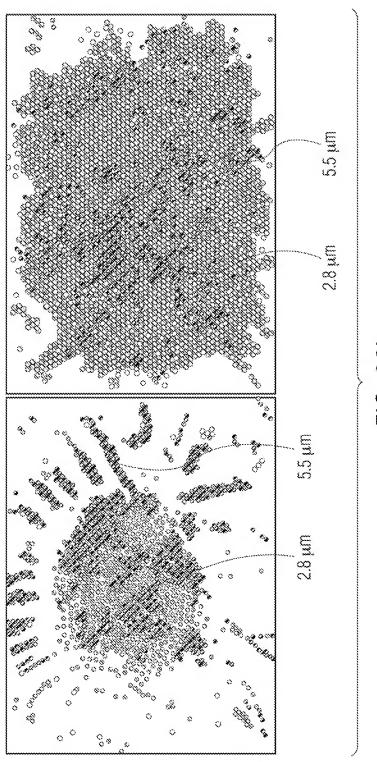
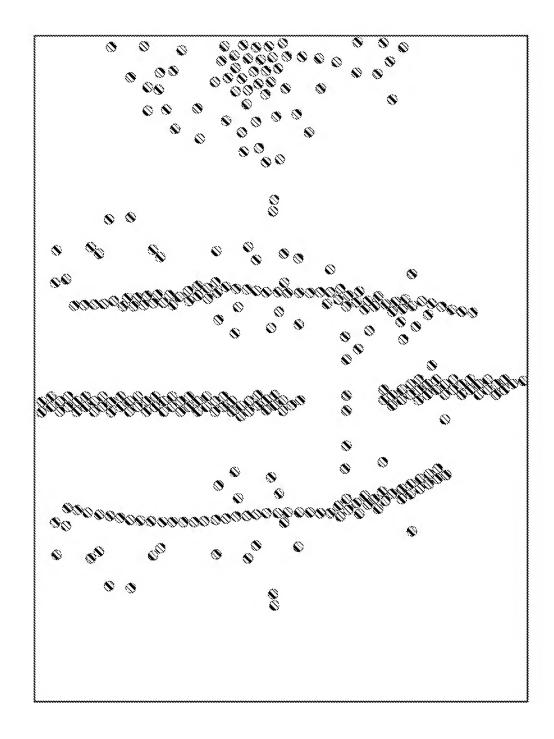


FIG. 26b



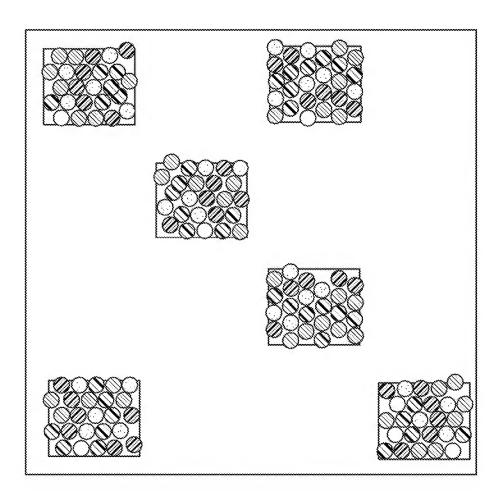


FIG. 28

